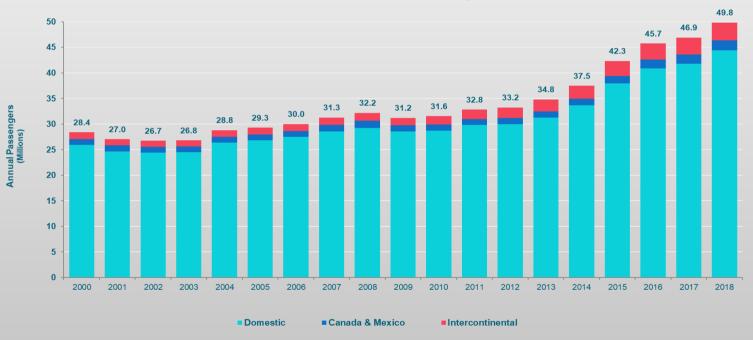
Terminal Waste Receptacle Standardization and Procurement



Sea-Tac Passenger Growth

Total Annual Air Passenger Traffic



Strong demand growth since the existing receptacles were put into service

Previous Standard

Interior Receptacles

Challenges

- Small openings Bridging
- Small in capacity
- Single unit leads to pre-mature emptying



While addressing some of the Airport's current needs, does not address all needs

What problems are we trying to solve?



Wide variety of existing conditions. No uniform standard or program. Need a plan forward.

Old Receptacles

Current challenges

- Graphics wear
- Cross-Contamination issues
- Equipment failure
- Visual appearance
- Odor problems



Aged receptacles have reached end of useful life and function poorly

Challenges with current state

Issues

- Inefficient for staff
- Not a fit for our waste streams
- Failing to meet the current passenger demand
- Not aligned with our sustainability initiatives









Damaged, older receptacles fail to meet the current needs and goals of the Airport

Previous Standard

Exterior Receptacles

Challenges

- Capacity
- Failing to meet demand
- Design weakness for the application





Does not meet the capacity or duty demands for the current application

New Standard Development

- Increased Capacity over previous standard.
- Heavy duty, yet attractive.
- Bigger openings avoid bridging.
- Front door opening for easy access.
- Slanted top avoids stacking.
- Modular: Interchangeable Flange.



Voice of the staff

"We love these new receptacles... They are so easy to maintain."



"The slide out bins are easy to handle. No hassling with lids."



"Makes our job easier."



SeaTac Airport Current Waste Receptacle Inventory Plus Additions

As the Airport facility and passenger volume grows, the demand for such equipment grows.

Replacement Summary	Location	Quantity	-
Replacement 2019-2020	Interior	345	
	Exterior	142	
Replacement Total		487	
New Addition 2019-2020	Interior	269	Int
	Exterior - NE Ground		_
New Addition 2020	Transportation	59	Ex
New Addition 2020	IAF 2020	40	Tot
New Addition 2021	NSAT 2021	30	100
New Addition 2022	NSAT 2022	30	Fre
New Addition Total		428	
2020 Contingency	6% of 2019 total	51	
2021 Contingency	6% of 2020 total	54	
2022 Contingency	6% of 2021 total	61	
2023 Contingency	6% of 2022 total	65	
Contingency Total		231	
Grand Total in Plan		<u>1146</u>	

Item	Quantity in Plan	Estimated Price per Receptacle	Total
Interior	945	\$1,100.00	\$1,039,500.00
Exterior	201	\$1,850.00	\$371,850.00
Total Quantity	1146		
Freight (average \$245)	1146	\$245.00	\$280,770.00
		Sub Total w/o Tax	\$1,692,120.00
		Tax	\$169,212.00
		Grand TOTAL	\$1,861,332.00

Details of SeaTac Airport Old Waste Receptacle Inventory and Additions

Itemized Categories Replacement over 2019 - 2020			
Old Transit	96	192	
Combo 3 Stream	39	78	
Food Court Receptacles	48	48	
Cylinder Cans	81	27	
Total to be replaced - Interior	264	345	

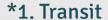
Type for Exterior Receptacle	Current Quantity	Replacement Quantity
Dispatch	71	142
Total to be replaced - Exterior	71	142

New Additions over 2019-2020

Туре	Number of Location in need of Receptacles	Quantity Need at Location
D Hardstand -		
Garbage/Recycle/Compost waste		
receptacle - 3 stream	1	3
D Hardstand - Duo for 7 Gate		
Counters	7	14
All Terminal Gate Counters including		
FIS - Duo	95	190
Baggage Claim - Duo	15	30
Skybridges - Duo	6	12
Checkpoints - cabinet receptacles w		
roll out bins - Duo	10	20
TOTAL AIR TERMINAL OPS	134	269
NE GT - Ticketing kiosks - Duo	6	12
NE GT - Exterior	10	20
NE GT - Garbage/Recycle/Compost		
waste receptacle - 3 stream	9	27
TOTAL LANDSIDE OPS	25	59

* See Image Legend on the next slide

Image Legend





*5. Dispatch



*2. Combo 3 Stream



*6. 3 Stream, New Standard



*3. Food Court Receptacles



*7. Duo





*4. Cylinder Cans



Questions

THANK YOU!

Appendix

Aged Receptacle

Inefficient and Dysfunctional

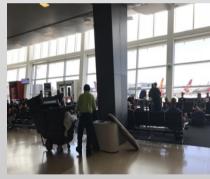
Custodial and Passenger Inefficiency

- Small openings
 - Trash gets stuck
 - Trash piles up on top
 - Appears full when it's not
- Small in capacity
- Inefficient top lid opening
- Inside only supplies thin wire rings to hold liners:
 paper clips to hold the waste weight
- Liner falls down, liquid spills out of the case onto floor
- Receptacle lid lifting and placement challenges around passengers when it's packed with passengers

A Concourse







Food Court Receptacles

Challenges

- Opening Arrangement
- Materials of construction not rugged
- Not consistent or standard with the balance of the facility





While meeting some of the needs of the Food Court areas, do not meet all needs

Landside/Garage Receptacles

Challenges

- No real standard
- Inherent design weaknesses
- Attract rodents and pests
- Risk of injury for staff



Staff are deferring purchase of the previous landside standard for garage due to known challenges

Previous Standard Interior Receptacle Specification

"Transit" Pricing to the Port

- Current price \$2,100.00 EA for 10EA purchase for new D Hardstand
- Total 60 gal. (3 x 20) gallons
- SLTRA-180 with cast aluminum lid
- H 35.9" x W 40.8" x D 19.5"
- Weight 128 lbs.

"Transit" Pricing in 2012 to the Port

Price in 2011 and delivery in 2012

• **\$1,524.00** EA for 179EA purchase



Salt Lake City International Airport

Architectural Brass (AB) SLC: \$800 – \$1,200.00 (20gal. EA Bin)



Calgary International Airport

AB Calgary: \$1,085.00 - \$1,595.00 (20gal. EA Bin)





San Jose International Airport

AB MOD: \$995 - \$1,195.00 (20gal. EA)



LAX – Los Angeles World Airports

AB LAXWEST: \$ Not Available



Phoenix Sky Harbor International Airport

AB PHX: \$1,595.00 - \$1,895.00 (20gal. EA Bin)





McCarran International Airport, Las Vegas

AB JELLO: \$ Not Available



Nashville International Airport

AB Citizen: \$2,795.00 - \$2,995.00 (20gal. EA Bin)



Philadelphia International Airport

AB Convention: \$1,295.00 - \$1,495.00 (20gal. EA Bin)



Dallas Fort Worth International Airport

Ex-Cell Kaiser Echelon 3 Stream: \$2,100.00 - \$3,100.00 (25gal. EA Bin)



Atlanta Hartfield-Jackson Int'l Airport

AB Terminal (Left): \$1,195 - \$1,395.00 (20gal. EA)

Harmony Compactor (right): \$8,000.00 (10x compaction, 25gal.EA)



